

COMPUTER ACTIVITY SUMMARY – GAS LAWS

1. What creates, or causes, pressure in a gas? (Think about what you saw in the computer simulation. If you're not sure, revisit the simulation).
2. Graph your data from Lab Experiment 6 (Pressure vs. Volume). Place pressure on the Y axis and volume on the X axis. Print out this graph. Compare your graph to the graph you created from Computer Simulation A. Are they alike?

Write the equation for the graph here:

Now, go to pp. 418-423 in your book. Find the Gas Law that corresponds with this graph, and write its name and corresponding equation here:

3. Graph your data from Lab Experiment 7 (Pressure vs. Temperature). Place pressure on the Y axis and temperature on the X axis. Print out your graph. Compare your graph to the graph you created from Computer Simulation B. Are they alike?

Write the equation for the graph here:

Now, go back to pp. 418-423 in your book. Find the Gas Law that corresponds with this graph, and write its name and corresponding equation here.

4. Go to the Computer Simulation website.
<http://intro.chem.okstate.edu/1314F00/Laboratory/GLP.htm>
Click on the volume radio button to make it the dependent variable, and vary temperature with the slider bar. Record 6 data points with increasing temperatures and their corresponding volumes. Graph on Excel with volume on the Y axis and temperature on the X axis (Volume vs. Temperature). Print out the graph.

Write the equation for the graph here:

Now, go back to pp. 418-423 in your book. Find the Gas Law that corresponds with this graph, and write its name and corresponding equation here.